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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/986,698	11/09/2001	Junbiao Zhang	A8182	5838

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2100 Pennsylvania Avenue. NW  
Washington, DC 20037-3213

EXAMINER

PEACHES, RANDY

ART UNIT	PAPER NUMBER
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2686

DATE MAILED: 10/21/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

09/986,698

Applicant(s)

ZHANG, JUNBIAO

Examiner

Randy Peaches

Art Unit

2686

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 29 September 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-32 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-8, 10-12, 14-23 and 25-32 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |                                                                                                                        |                                                                                         |
|------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)                                                       | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____                                                |

## DETAILED ACTION

### ***Continued Examination Under 37 CFR 1.114***

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 9/29/2005 has been entered..

### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

1. ***Claims 1-5*** are rejected under 35 U.S.C. 102(e) as being anticipated by Erikson (U.S. Patent Number 6,622,018 B1).

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Regarding **claim 1**, Erikson discloses a method for extending a capability of a portable computer system (PCS, 100), which reads on claimed "handheld device," capable of independent operation, the method comprising:

- detecting a remote device (RD, 610, 620, 630), which reads on claimed "helper device," , see FIGURE 6, that provides a resource, i.e. television, stereo, etc.

See column 1 lines 25-30;

- said PCS (100) requesting access to the selected resource from said RD (610, 620, 630). See column 8 lines 50-55;
- transferring data to said RD (610, 620, 630) from said PCS (100) in accordance with said RD (610, 620, 630) if the said PCS (100) grants access to the selected resource. See column 9 lines 25-40 and column 10 lines 1-10;
- using the selected resource to process the transferred data (see column 2 lines 31-40) transferred from the said PCS to the said RD;
  - wherein the resource is not adequately provided by the independent operation of said PCS (100). See column 2 lines 17-31, and

Regarding **claim 2**, according to **claim 1**, Erikson further discloses in column 8 lines 42-64, wherein when the said RD (610, 620, 630) has not been selected as a "compliant", device will the said RD (610, 620, 630) deny access to the said PCS (100).

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Regarding **claim 3**, according to **claim 1**, Erektion further discloses a method for extending one or more capabilities of a PCS (100) comprising:

- wherein using the resource to process the data transferred from the said PCS (100) is controlled by said PCS (100). See column 8 lines 58-64.

Regarding **claim 4**, according to **claim 1**, Erektion further discloses a method comprising:

- sending characterization information, which reads on claimed "interface description," to said PCS (100), to the said RD. See column 8 lines 50-60;
- said PCS (100) constructing and displaying an icon, which reads on claimed "control interface," from said interface description. See column 9 lines 10-24;
- transferring user interaction with said control interface to said RD (610, 620, 630). See column 8 lines 56-64 and column 9 lines 25-40, and
- interpreting the user interaction based on said selected resource. See column 9 lines 34-40;
  - wherein said PCS (100) operating said RD (610, 620, 630) based on said i.e. use of the stylus (column 2 lines 32-36), and
  - whereby new resources can be added or existing resources can be modified without requiring modifications on said RD (610, 620, 630). See column 10 lines 48-64 and column 11 lines 33-49.

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Regarding **claim 5**, according to **claim 1**, Ereksen further discloses in a Link Management Protocol (LMP) utilized to report information, as disclosed in column 7 lines 56-63. Said information is used by the said PCS (100) to execute a command, i.e. on/off, of the said remote device.

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2. **Claims 22-23 and 25-31** are rejected under 35 U.S.C. 102(e) as being anticipated by Ohta (U.S. Publication Number 2001/0029531 A1).

Regarding **claim 22**, Ohta discloses a system for extending one or more capabilities of a portable digital device (11), comprising:

- a client device (14) i.e. computer/workstation or PDA, which reads on claimed "first means," for accessing at least one resource. See paragraph [0037];
- a print server (13) in conjunction with a print stations (12a, 12b, 12c), which reads on claimed "second means," for controlling access to said at least one resource. See paragraph [0037];
- an access point (16), which reads on claimed "third means," for communicating between said print stations (12a, 12b, 12c) and said print server (13). See paragraph [0037];
  - wherein said client device (14) uses said access point (16) to determine whether said print server (13) in conjunction with a print stations (12a, 12b, 12c), is capable of providing a selected one of said at least one resource to said client device (14). See paragraph [0055-0056];
  - wherein said client device (14) uses said access point (16) to request said selected resource from said print server (13) in conjunction with a print stations (12a, 12b, 12c)(see paragraph [0037]), said print server (13) in conjunction with a print stations (12a, 12b, 12c), queuing the request if said selected resource is temporarily unavailable. See paragraph [0037];

- when said selected resource becomes available to said print server (13) in conjunction with a print stations (12a, 12b, 12c), said print server (13) in conjunction with print stations (12a, 12b, 12c), grants said client device (14) access to said selected resource, and any other queued requests for said selected resource from said client device (14) are ignored. See paragraphs [0037-0038];
- wherein said client device (14) uses said access point (16) to transfer data to said print server (13) in conjunction with a print stations (12a, 12b, 12c) in accordance with said print server (13) in conjunction with a print stations (12a, 12b, 12c) granting said client device (14) access to said selected resource. See paragraph [0037];
- wherein said print server (13) in conjunction with a print stations (12a, 12b, 12c) uses said selected resource to process said data. See paragraph [0037];
- wherein said client device (14) is mobile and capable of independent operation. See paragraph [0003];
- wherein said selected resource is not adequately provided by said independent operation of said client device (14), and whereby said one or more capabilities of said client device (14) is extended through the operation of the selected resource of said print server (13) in conjunction with a print stations (12a, 12b, 12c). See paragraph [0040].



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- wherein said RD (610, 620, 630) sending characterization information, which reads on claimed "interface description," to said PCS (100). See column 8 lines 50-60;
- wherein said PCS (100) constructing and displaying an icon, which reads on claimed "control interface," from said interface description. See column 9 lines 10-24;
- wherein said RD (610, 620, 630) interpreting the user interaction based on said selected resource. See column 9 lines 34-40;
- wherein said PCS (100) transferring a processed user interaction with said control interface to said RD (610, 620, 630). See column 8 lines 56-64 and column 9 lines 25-40, and 9.
  - wherein said PCS (100) operating said RD (610, 620, 630) based on said i.e. use of the stylus (column 2 lines 32-36), and
  - whereby new resources can be added or existing resources can be modified without requiring modifications on said RD (610, 620, 630). See column 10 lines 48-64 and column 11 lines 33-49.

Regarding **claim 23**, according to **claim 22**, Ohta further discloses wherein the operation of said resource on said data is controlled by said client device (14) using said access point (16). See paragraphs [0037 and 0052]

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Regarding **claim 25**, according to **claim 22**, Ohta further discloses in paragraphs [0037,0051,0066] wherein, said information is specified in a printer driver/description language (PDL), which reads on claimed "markup language."

Regarding **claim 26**, according to **claim 22**, Ohta further discloses in paragraphs [0039] wherein the request for said resource includes capability information associated with said client device (14), and wherein said capability information is used by said print server (13) in conjunction with a print stations (12a, 12b, 12c) to determine the appropriate interface description to send to said client device (14).

Regarding **claim 27**, according to **claim 22**, Ohta further discloses in paragraphs [0044-0047] wherein the request for said resource from said client device (14) includes the type of data to be transferred and the size of said data.

Regarding **claims 28 and 29**, according to **claim 22**, further disclosed by Ohta wherein said data transferred from said consists of a URL. See paragraph [0041].

Regarding **claims 30 and 31**, according to **claim 22**, further disclosed by Ohta wherein a client device (14), i.e. computer/work station, which reads on claimed "client," is used for communication. The said client device (14) being activated on demand, which reads on claimed "daemon," when a user interacts with the said device. See paragraph [0037].

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. ***Claims 6-8, 10-12, 14-15 and 17-20*** are rejected under 35 U.S.C. 103(a) as being unpatentable over Erikson (U.S. Patent Number 6,622,018 B1) in view of Ohta (U.S. Publication Number 2001/0029531 A1).

Regarding ***claims 6 and 11***, Erikson discloses a method for extending a capability of a portable computer system (PCS, 100), which reads on claimed "handheld device," capable of independent operation, the method comprising:

- detecting a plurality of remote device (RD, 610, 620, 630) (column 2 lines 9-11), which reads on claimed "helper device," see FIGURE 6, that provides at least one resource, i.e. television, stereo, etc. See column 1 lines 25-30 and controlling access to the resource;;
- determining the RD (610, 620, 630) the provides a first resource needed to extend the capability of the said PCS (100), i.e. on/off, to the selected resource. See column 8 lines 33-64;

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- said PCS (100) issuing a request for access to the selected first resource to each of the said RD (610, 620, 630). See column 8 lines 50-55;
- transferring data to the first said RD (610, 620, 630) from said PCS (100) in accordance with said RD (610, 620, 630) granting said PCS (100) access to the selected resource. See column 9 lines 25-40 and column 10 lines 1-10;
- said RD (610, 620, 630) using the selected resource to process the transferred data(see column 2 lines 31-40) transferred from the said PCS (100);
  - wherein the selected resource is not adequately provided by said independent operation of said PCS (100). See column 2 lines 17-31, and
  - whereby said one or more capabilities, i.e. use of the stylus (column 2 lines 32-36) of said PCS (100) are extended through the operation of the selected resource of said RD (610, 620, 630). See column 2 lines 41-50.
- said RD (610, 620, 630) sending characterization information, which reads on claimed "interface description," to said PCS (100). See column 8 lines 50-60;
- said PCS (100) constructing and displaying an icon, which reads on claimed "control interface," from said interface description. See column 9 lines 10-24;
- said RD (610, 620, 630) interpreting the user interaction based on said selected resource. See column 9 lines 34-40;
- said PCS (100) transferring a processed user interaction with said control interface to said RD (610, 620, 630). See column 8 lines 56-64 and column 9 lines 25-40, and 9.

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- wherein said PCS (100) operating said RD (610, 620, 630) based on said i.e. use of the stylus (column 2 lines 32-36), and
- whereby new resources can be added or existing resources can be modified without requiring modifications on said RD (610, 620, 630). See column 10 lines 48-64 and column 11 lines 33-49.

However, Ereksen fails to disclose wherein when the selected resource becomes available to one of said RD (610, 620, 630) having queued the request, said one of said RD (610, 620, 630) granting said PCS (100) access to said resource and ignoring all queued requests for said resource in other said RD (610, 620, 630) having queued the request; additionally, wherein all requests for the selected resource, in other helper devices having queued the request from said handheld device, are ignored.

Ohta teaches of a system where a request is sent to a set of printers, which reads on claimed "helper devices," which is controlled by a printer server. When the selected printer becomes available to the said printer server, request is fulfilled. Therefore, ignoring the previously transmitted requests to the other said printers; thus ignoring the queued requests. See paragraph [0076].

Therefore, at the time of the invention it would have been obvious to a person of ordinary skill in the art to modify Ereksen (U.S. Patent Number 6,622,018 B1) to include Ohta (U.S. Publication Number 2001/0029531 A1) in order to eliminate excess storage of queued information that is to be processed by a said remote device when the said device becomes available.

Regarding **claim 7**, as the combination of Erikson (U.S. Patent Number 6,622,018 B1) and Ohta (U.S. Publication Number 2001/0029531 A1) are made, the combination according to **claim 6**, Ohta continues to further disclose in paragraph [0076] wherein the communication between said PCS (100) and first said RD (610, 620, 630) of step (e) is broken before said PCS (100) has completed use of the first selected resource, returning to step (a), which is detecting another said RD providing the said first resource.

Therefore, at the time of the invention it would have been obvious to a person of ordinary skill in the art to modify Erikson (U.S. Patent Number 6,622,018 B1) to include Ohta (U.S. Publication Number 2001/0029531 A1) in order to retransmit a request when it is determined that a failure occurred prior to the completion of the request. This function is applicable to assure the said request is granted and the process complete, regardless of errors that may occur.

Regarding **claims 8 and 12**, as the combination of Erikson (U.S. Patent Number 6,622,018 B1) and Ohta (U.S. Publication Number 2001/0029531 A1) are made, the combination according to **claims 6, 11**, Erikson further discloses a method for extending one or more capabilities of a PCS (100) comprising:

- controlling the processing of the data, transferred from the said PCS (100) to the said first RD by the said PCS (100). See column 8 lines 58-64.

Regarding **claims 10 and 21**, as the combination of Erikson (U.S. Patent Number 6,622,018 B1) and Ohta (U.S. Publication Number 2001/0029531 A1) are made, the combination according to **claim 6 and 11**, Erikson further teaches of a Link Management Protocol (LMP) utilized to report information, as disclosed in column 7 lines 56-63. Said information is used by the said PCS (100) to execute a command, i.e. on/off, of the said remote device.

Regarding **claim 14**, as the combination of Erikson (U.S. Patent Number 6,622,018 B1) and Ohta (U.S. Publication Number 2001/0029531 A1) are made, the combination according to **claim 11**, further discloses by Ohta in paragraphs [0037,0051,0066] wherein, said information is specified in a printer driver/description language (PDL), which reads on claimed "markup language."

Therefore, at the time of the invention it would have been obvious to a person of ordinary skill in the art to modify Erikson (U.S. Patent Number 6,622,018 B1) to include Ohta (U.S. Publication Number 2001/0029531 A1) in order to provide a means of sending information to a said helper device via a language capable of being traversed over the Internet.

Regarding **claim 15**, as the combination of Erikson (U.S. Patent Number 6,622,018 B1) and Ohta (U.S. Publication Number 2001/0029531 A1) are made, the combination according to **claim 11**, further disclosed by Ohta in paragraph [0046], of a disk unit (24),

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which reads on claimed "storage device," for storing application information, which reads on claimed "service information."

Therefore, at the time of the invention it would have been obvious to a person of ordinary skill in the art to modify Erikson (U.S. Patent Number 6,622,018 B1) to include Ohta (U.S. Publication Number 2001/0029531 A1) in order to provide a means for storing program information utilized to communicate with the said remote devices.

Regarding **claims 17 and 18**, as the combination of Erikson (U.S. Patent Number 6,622,018 B1) and Ohta (U.S. Publication Number 2001/0029531 A1) are made, the combination according to **claim 11**, further disclosed by Ohta wherein said data transferred from said consists of a URL. See paragraph [0041].

Therefore, at the time of the invention it would have been obvious to a person of ordinary skill in the art to modify Erikson (U.S. Patent Number 6,622,018 B1) to include Ohta (U.S. Publication Number 2001/0029531 A1) in order to for the said PCS to have the capability to communicate to a said remote device over the internet via a URL.

Regarding **claims 19 and 20**, as the combination of Erikson (U.S. Patent Number 6,622,018 B1) and Ohta (U.S. Publication Number 2001/0029531 A1) are made, the combination according to **claim 11**, further disclosed by Ohta wherein a client device (14), i.e. computer/work station, which reads on claimed "client," is used for communication. The said client device (14) being activated on demand, which reads on claimed "daemon," when a user interacts with the said device. See paragraph [0037].



Therefore, at the time of the invention it would have been obvious to a person of ordinary skill in the art to modify Erikson (U.S. Patent Number 6,622,018 B1) to include Ohta (U.S. Publication Number 2001/0029531 A1) in order to provide a static means of establishing communication with a said remote device via a wired network.

4. **Claim 16** is rejected under 35 U.S.C. 103(a) as being unpatentable over the combination of Erikson (U.S. Patent Number 6,622,018 B1) and Ohta (U.S. Publication Number 2001/0029531 A1) to further include Mitchell et al. (U.S. Publication Number 2002/0184496 A1).

Regarding **claim 16**, as the combination of Erikson (U.S. Patent Number 6,622,018 B1) and Ohta (U.S. Publication Number 2001/0029531 A1) are made, the combination according to **claim 11**, fails to disclose a system comprising an access database for storing authentication data wherein the control of the said remote device is based on the authentication information.

Mitchell et al discloses in paragraphs [0074 and 0076], of an authentication database containing the profile information of a user. Access is granted to a said device based on the information stored in the said authentication database.

Therefore, at the time of the invention it would have been obvious to a person of ordinary skill in the art to modify the combination of Erikson (U.S. Patent Number 6,622,018 B1) and Ohta (U.S. Publication Number 2001/0029531 A1) to further include Mitchell et al. (U.S. Publication Number 2002/0184496 A1) in order to provide a means

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of security to limit access of a said PCS (100). Additionally, granting permission to access a said remote device by analyzing the authentication profile stored in the authentication database.

5. **Claim 32** is rejected under 35 U.S.C. 103(a) as being unpatentable over Ohta (U.S. Publication Number 2001/0029531 A1) in view of Erikson (U.S. Patent Number 6,622,018 B1).

Regarding **claim 32**, according to **claim 22**, Ohta discloses a system for extending one or more capabilities of a portable digital device (11).

However, Ohta fails to disclose wherein a status report is generated of the operation of a said resource, which is further processed by a said client device (14) for further execution.

Erikson further discloses in a Link Management Protocol (LMP) utilized to report information, as disclosed in column 7 lines 56-63. Said information is used by the said PCS (100) to execute a command, i.e. on/off, of the said remote device.

Therefore, at the time of the invention it would have been obvious to a person of ordinary skill in the art to modify Ohta (U.S. Publication Number 2001/0029531 A1) to include Erikson (U.S. Patent Number 6,622,018 B1) in order to provide a status report to generated and provided to a said client device (14). After an evaluation of the said report, action is further taken based on information provided by the said report.

### ***Response to Arguments***

Applicant's arguments filed 9/29/2005 have been fully considered but they are not persuasive.

The Examiner would like to respectfully denote to the Applicant that despite the amendments made in the response to the Final Rejection, the rejection to the claims are maintained due to the fact that the amended language does not further restrict the interpretation of the claimed application. Furthermore, the Applicant argues the premise that Erikson fails to disclose requesting of access to a resource of a helper device. Please note, the examiner must rely on the broadest, most reasonable interpretation of the claimed language. With that, the claimed language of "requesting access" has been interpreted by the Examiner as controlling the helper device's CPU and thusly, the CPU providing access to the other functions associated with the said helper device. For example, when a user presses the "play" on a VCR, a signal is sent to the CPU notifying the user's intent and then the CPU allows the user access to the "play functions" of the said VCR. The Examiner would like to further explain although Erikson does disclose a method for controlling a remote device over a wireless connection; thusly, with distinct comparison, functionally parallels with the disclosed claimed invention of the Applicant, in that, the resources of the said device is extended to the remote devices being controlled.

In conclusion, regarding ***claims 1-32***, per the above rejection and the response set forth, the arguments are deemed not persuasive; therefore, the rejections stand.

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**Conclusion**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Randy Peaches whose telephone number is (571) 272-7914. The examiner can normally be reached on Monday - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marsha D. Banks-Harold can be reached on (571) 272-7905. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Randy Peaches  
October 17, 2005

*Marsha D Banks-Harold*  
MARSHA D. BANKS-HAROLD  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2600